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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/195,080	80 11/18/1998		KEIKO ABE	FUJA-15.646 3931		
26304	7590	01/25/2005		EXAMINER		
KATTEN I 575 MADIS		ZAVIS ROSENM	HARPER, KEVIN C			
NEW YORK			ART UNIT	PAPER NUMBER		
				2666		

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/195,080	ABE ET AL.			
		Examin r	Art Unit			
		Kevin C. Harper	2666			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespond nce address			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. & 133).			
Status	•	1				
1)⊠	Responsive to communication(s) filed on 16 S	eptember 2004.				
2a)⊠	This action is FINAL . 2b) This	action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)⊠	Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdray. Claim(s) 5-8 and 12-14 is/are allowed. Claim(s) 1-4 and 9-11 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.				
Applicat	ion Papers	•				
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc. Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the Education of the Education of the drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
12)[a)i	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicationity documents have been received in PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	` *	_				
2) 🔲 Notic 3) 🔲 Infori	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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Response to Arguments

Applicant's arguments regarding claims 1-4 and 9-11 filed September 16, 2004, have been fully considered but they are not persuasive. Applicant's arguments with respect to claims 5-8 and 12-14 have been fully considered and are persuasive. The rejection of claims 5-8 and 12-14 has been withdrawn.

- 1. Applicant argued that Nagami does not disclose a cell signal switching apparatus, a short cut controller, and a routing device as claimed. However, in Figures 54-55, Nagami discloses a similar structure as in Figures 1A, 1B 5, and 7 of the present invention, such that a layer-2 packet is switched at layer-2 if the proper routing information is known, and if not, layer-3 information within the packet is used to determine the layer-2 routing. Thus a routing device (represented by functionality of Figure 4, items 204 and 207) uses layer-3 information when shortcut processing is determined to be inapplicable (Figure 7, step S2; para. 170) by a shortcut controller (represent by functionality of Figure 4, items 203-206) that caches outgoing information (Figure 7, step S11; para 369).
- 2. Applicant argued that Nagami does not disclose caching outgoing routing data as layer-2 output data. However, the layer-2 data is cached in order to facilitate bypass switching (para. 174; para. 369) as determined from layer-3 routing data.

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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Claims 1-4 and 9-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Nagami et al. (US 2001/0056490).

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- Regarding claims 1-2 and 9, Nagami discloses a packet transfer apparatus (Figures 1 and 3. 55; abstract) for transferring cells (or frames) among first and second nodes (Figure 55, items 11) and a routing device (items 11, ROUTER; para. 9, lines 1-3). The connection between the switch and the routing device is fixed (Figures 4-5, 7; Figure 6, standard bus I/F; para. 150-155). Each node and router has an inherent interface and the routing device determines an outgoing route for the cells according to destination data contained in the cells (Figure 7; Figure 12, step S162). Each ATM cell is made from or encapsulated in an IP packet (Figure 7, steps S3) having destination data. The packet transfer apparatus comprises a switch (Figures 54-55, items 11; note: crossbar switch below router), a memory for caching outgoing routing data (Figure 7, items t3 and t2; step S9-S11), and a shortcut controller (Figure 4, item 203-206; Figure 7, item S2, T1 and S6; paras. 169 and 171; para. 369) for forming a shorcut to transmit the cell directly from the first node to the second node (Figure 12, step S165; Figures 13, 54 and 55) without routing by the routing device (para. 119) when the outgoing route data contained in an input cell is equal to outgoing route data cached in the memory (Figure 7, steps S2 and S6; para. 369), and otherwise, caching outgoing route data for the input cell into the memory (step S11; paras 174, 185 and 187, lines 1-3) after the input cell has been transmitted to the routing device and back (Figure 7, steps S3-S4, S8, S11 and S12), and after the input cell has been routed to the second node by the routing device (Figure 7, steps S8-S13).
- 4. Regarding claim 3, the ATM cell is AAL5 (para. 418, last sentence; para. 430).
- 5. Regarding claim 10, the nodes transmit data according to frame relay (para. 38).

6. Regarding claims 4 and 11, the output route data includes a destination address and an outgoing port number (Figure 7, items t1 and t4; para 369).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:30 AM to 8:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 571-272-3174. The centralized fax number for the Patent Office is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only (applications must be associated with a customer number). For more information about the PAIR system, see portal uspto gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center

(EBC) at 866-247-9197 (toll-free).

Kevin C. Harper

January 11, 2005

SEEMA S. RAO

SUPERVISORY PATENT EXAMINÉR TECHNOLOGY CENTER 2800